

Standards–Based Best Practices AZ Academic Standards Unit

**Arizona Department of Education
February 23, 2009**



Overarching Goals

- Provide leadership in the revision of the AZ Academic Standards
- Provide support to teachers in implementing the AZ Academic Standards
- Offer data-driven and research-based professional development and technical assistance sessions
- Develop alternative delivery systems of support

Leadership

- Revision of Standards
 - Mathematics Standard
 - Language Arts Standard
 - Leadership Team: 29 members
 - Committee: 21 additional members
- Arizona Mathematics Leadership Coalition
 - Establish and support statewide mathematics leadership network
- Presidential Awards for Mathematics and Science
 - Coordinate state competition and recognition

Implications for Language Arts Standards

Critical Thinking Skills

21st Century Skills



Current Research Integration

Programme for International Assessment
National Assessment for Educational Progress
American Diploma Project Benchmarks

Leadership

- Statewide Conferences
 - Arizona Association of Teachers of Mathematics
 - Arizona Science Teachers Association
 - Arizona Council for the Social Studies
- Professional Development
 - Districts
 - Counties
- National Conferences
 - Presentations
 - Planning Committees
 - Projects

Professional Development

- Mathematics (over 1300 participants)
 - 8 Introduction to the Mathematics Standard Sessions: 180 participants
 - 14 Overview Sessions of the Mathematics Standard: 412 participants
 - 3 AZ Counts Conferences: 272 participants
 - 6 Grade Level Sessions (AATM): 33 participants
 - 15 Content Specific Sessions: 405 participants

Professional Development

- Science
 - 7 Sessions
 - 154 participants
- Social Studies
 - 11 Sessions
 - 202 participants

Technical Assistance

- Mathematics Grade Level Documents
- Expansion of Learning Resource Manager (IDEAL)
 - Content-Rich Support Materials
 - Trade Book Database
 - Social Studies Lessons
 - Additional Examples and Lessons Plans for 2008 Mathematics Standard
 - Align Thinkfinity Resources to Science Standard

Technical Assistance

- Statewide Partnerships / Committees
 - Institute for Mathematics
 - Audubon Arizona / Arizona Environmental Literacy Plan
 - Arizona Biosciences Roadmap
 - Arizona Historical Advisory commission
 - Arizona Centennial Legacy Project
 - Abraham Lincoln Bicentennial

Mathematics and Science Partnerships Program

- ***Authorized*** under No Child Left Behind Act of 2001, P.L. 107–110, under Title II, Part B
- Partners include
 - Mathematics, science, and/or engineering departments/faculty from Institutions of Higher Education
 - High need LEAs as shown by student achievement levels in mathematics or science

Mathematics and Science Partnership Projects 2007–2008

- 19 Projects – 10 counties served
 - 8 Science and Literacy
 - 4 Science
 - 7 Mathematics
- 876 teachers completed professional development
 - 75% showed significant gains in science/mathematics knowledge
 - 93,770 hours of professional development
 - 24,904 students taught by participating teachers

Mathematics and Science Partnership Projects 2007–2008

- 21 Partnering Institutions of Higher Education
 - 78 staff members involved in planning and delivery of professional development
- 164 Partnering schools and school districts
- In 2008, 11 projects were approved for continuation and 3 new projects were funded

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